| Explanation | Screenshot |
| --- | --- |
| RPA Challenge – Cloud Studio – Add Open Excel Instance activity | |
| (1) Scroll down to make space below the workflow |  |
| RPA Challenge – Cloud Studio – Add Open Excel Instance activity | |
| (1) Search for **Open Excel Instance** activity |  |
| RPA Challenge – Cloud Studio – Add Open Excel Instance activity | |
| (1) Drag the activity |  |
| RPA Challenge – Cloud Studio – Add Open Excel Instance activity | |
| (1) Drop it into the workflow after the **Condition** activity |  |
| RPA Challenge – Cloud Studio – Add Excel Cloud Link activity | |
| (1) Clear the search field |  |
| RPA Challenge – Cloud Studio – Add Excel Cloud Link activity | |
| (1) Search for the **Excel Cloud Link** activity    This activity is used to map an Excel range to a data type |  |
| RPA Challenge – Cloud Studio – Add Excel Cloud Link activity | |
| (1) Drag the Activity |  |
| RPA Challenge – Cloud Studio – Add Excel Cloud Link activity | |
| (1) Drop it into the workflow after the **Open Excel Instance** activity |  |
| RPA Challenge – Cloud Studio – Excel Cloud Link activity – Setting the properties | |
| (1) Click on the activity to set the properties |  |
| RPA Challenge – Cloud Studio – Excel Cloud Link activity – Setting the properties | |
| (1) Click on the **Step name** and rename it to **Read Employees** |  |
| RPA Challenge – Cloud Studio – Excel Cloud Link activity – Setting the properties | |
| (1) Click on **returnedValues** in the **Output Parameters** field |  |
| RPA Challenge – Cloud Studio – Excel Cloud Link activity – Setting the properties | |
| (1) Rename it to **Employees** |  |
| RPA Challenge – Cloud Studio – Excel Cloud Link activity – Setting the properties | |
| (1) Click on **Edit Activity** |  |
| RPA Challenge – Cloud Studio – Excel Cloud Link activity – Setting the properties | |
| (1) Resize the Panel if needed |  |
| RPA Challenge – Cloud Studio – Excel Cloud Link activity – Setting the properties | |
| (1) Click on **browse** |  |
| Selecting the Excel file | |
| (1) Select **Challenge.xlsx** |  |
| Selecting the Excel file | |
| (1) Click on **Open** |  |
| RPA Challenge – Cloud Studio – Excel Cloud Link activity – Creating Data type | |
| (1) Drag the panel to the left to make more visibility if needed |  |
| RPA Challenge – Cloud Studio – Excel Cloud Link activity – Creating Data type | |
| (1) Drop where needed |  |
| RPA Challenge – Cloud Studio – Excel Cloud Link activity – Creating Data type | |
| (1) Click on **From Excel data** to create a Data type |  |
| RPA Challenge – Cloud Studio – Excel Cloud Link activity – Creating Data type | |
| (1) Set name to **Person** |  |
| RPA Challenge – Cloud Studio – Excel Cloud Link activity – Creating Data type | |
| (1) Click on **Create** |  |
| RPA Challenge – Cloud Studio – Excel Cloud Link activity – Creating Data type | |
| (1) Set the **Workbook path** to **c:\temp\challenge.xlsx** |  |
| RPA Challenge – Cloud Studio – Excel Cloud Link activity – Creating Data type | |
| (1) Click on the string between quotes |  |
| RPA Challenge – Cloud Studio – Add Close Excel Instance activity | |
| (1) Close the properties panel |  |
| RPA Challenge – Cloud Studio – Add Close Excel Instance activity | |
| (1) Clear the search field |  |
| RPA Challenge – Cloud Studio – Add Close Excel Instance activity | |
| (1) Search for **Close Excel Instance** |  |
| RPA Challenge – Cloud Studio – Add Close Excel Instance activity | |
| (1) Drag the Activity |  |
| RPA Challenge – Cloud Studio – Add Close Excel Instance activity | |
| (1) Drop it into the workflow after the **Read Employees** activity |  |
| RPA Challenge – Cloud Studio – Saving automation | |
| (1) Click on **Save** |  |
| RPA Challenge – Cloud Studio – Creating Fill Fields automation | |
| At this stage, we need to create a new automation called **Fill fields** that we will use as a sub-automation inside the **Run RPA Challenge** automation.    Let's do that! |  |
| RPA Challenge – Cloud Studio – Creating Fill Fields automation | |
| (1) In SAP Intelligent RPA Cloud Studio, click on the icon |  |
| RPA Challenge – Cloud Studio – Creating Fill Fields automation | |
| (1) Then click the **Create** button on the left-hand side panel. A dropdown menu opens. |  |
| RPA Challenge – Cloud Studio – Creating Fill Fields automation | |
| (1) Select **Automation** |  |
| RPA Challenge – Cloud Studio – Creating Fill Fields automation | |
| (1) Set the **Name** to **Fill fields** |  |
| RPA Challenge – Cloud Studio – Creating Fill Fields automation | |
| (1) Click on **Create** |  |
| RPA Challenge – Cloud Studio – Creating Fill Fields automation – Setting input parameters | |
| (1) Click on |  |
| RPA Challenge – Cloud Studio – Creating Fill Fields automation – Setting input parameters | |
| (1) Click on **Add new input parameter** |  |
| RPA Challenge – Cloud Studio – Creating Fill Fields automation – Setting input parameters | |
| (1) Click on the **Name** parameter |  |
| RPA Challenge – Cloud Studio – Creating Fill Fields automation – Setting input parameters | |
| (1) Set the **Name** of the parameter to **employees** |  |
| RPA Challenge – Cloud Studio – Creating Fill Fields automation – Setting input parameters | |
| (1) Clear the **Data Type** parameter |  |
| RPA Challenge – Cloud Studio – Creating Fill Fields automation – Setting input parameters | |
| (1) Search for **Person** Data Type |  |
| RPA Challenge – Cloud Studio – Creating Fill Fields automation – Setting input parameters | |
| (1) Select **Person** |  |
| RPA Challenge – Cloud Studio – Creating Fill Fields automation – Setting input parameters | |
| (1) Check **List**    A list is used to pass multiple input values |  |
| RPA Challenge – Cloud Studio – Creating Fill Fields automation – Adding the Main screen | |
| (1) Click on **Tools** |  |
| RPA Challenge – Cloud Studio – Creating Fill Fields automation – Adding the Main screen | |
| (1) In **Automation Information**, expand the **Screens** list on the right-hand side panel |  |
| RPA Challenge – Cloud Studio – Creating Fill Fields automation – Adding the Main screen | |
| (1) Drag the **Main** screen |  |
| RPA Challenge – Cloud Studio – Creating Fill Fields automation – Adding the Main screen | |
| (1) Drop it into the workflow |  |
| RPA Challenge – Cloud Studio – Main screen – Adding activities | |
| (1) Select **Main** in the workflow and click the **Define Screen Activities** button on the **Screen** panel |  |
| RPA Challenge – Cloud Studio – Main screen – Adding the Click activity | |
| (1) Enter **Click** in the search bar of the **Screen** panel |  |
| RPA Challenge – Cloud Studio – Main screen – Adding the Click activity | |
| (1)  Choose the **Click** activity, drag it and |  |
| RPA Challenge – Cloud Studio – Main screen – Adding the Click activity | |
| (1) Drop it on the element **Start** button |  |
| RPA Challenge – Cloud Studio – Click activity – Setting the properties | |
| (1) Click on the activity to show the properties |  |
| RPA Challenge – Cloud Studio – Click activity – Setting the properties | |
| (1) Set the **Step name** parameter to **Click Start** |  |
| RPA Challenge – Cloud Studio – Adding the For Each activity | |
| (1) Close the step properties |  |
| RPA Challenge – Cloud Studio – Adding the For Each activity | |
| (1) Clear the search field |  |
| RPA Challenge – Cloud Studio – Adding the For Each activity | |
| (1) Search for **For Each** |  |
| RPA Challenge – Cloud Studio – Adding the For Each activity | |
| (1) Drag the Activity |  |
| RPA Challenge – Cloud Studio – Adding the For Each activity | |
| (1) Drop it into the workflow inside the **Main** screen below the **Click Start** activity |  |
| RPA Challenge – Cloud Studio – For Each activity – Setting the properties | |
| (1) Click on the activity to show the properties |  |
| RPA Challenge – Cloud Studio – For Each activity – Setting the properties | |
| (1) Click on the **Set looping list** parameter |  |
| RPA Challenge – Cloud Studio – For Each activity – Setting the properties | |
| (1) Select the variable **employees** |  |
| RPA Challenge – Cloud Studio – For Each activity – Setting the properties | |
| (1) Click on the **Step name** parameter |  |
| RPA Challenge – Cloud Studio – For Each activity – Setting the properties | |
| (1) Add **employee** to the **Step name** |  |
| RPA Challenge – Cloud Studio – Adding the Set Element activity | |
| (1) Close the step properties |  |
| RPA Challenge – Cloud Studio – Adding the Set Element activity | |
| (1) Clear the search field |  |
| RPA Challenge – Cloud Studio – Adding the Set Element activity | |
| (1) Search for the **Set Element** activity |  |
| RPA Challenge – Cloud Studio – Adding the Set Element activity | |
| (1) Drag the Activity |  |
| RPA Challenge – Cloud Studio – Adding the Set Element activity | |
| (1) Drop it into the workflow inside the **For Each employee** loop |  |
| RPA Challenge – Cloud Studio – Set Element activity – Setting the properties | |
| (1) Click on the activity to set the properties |  |
| RPA Challenge – Cloud Studio – Set Element activity – Setting the properties | |
| (1) Click on the **Step name** parameter |  |
| RPA Challenge – Cloud Studio – Set Element activity: Company Name – Setting the properties | |
| (1) Set it as **Set** **Company Name** |  |
| RPA Challenge – Cloud Studio – Set Element activity: Company Name – Setting the properties | |
| (1) Click on **Target** parameter |  |
| RPA Challenge – Cloud Studio – Set Element activity: Company Name – Setting the properties | |
| (1) Select **Rpa Challenge.Main.CompanyName** |  |
| RPA Challenge – Cloud Studio – Set Element activity: Company Name – Setting the properties | |
| (1) Click on **Value** and type **Company** |  |
| RPA Challenge – Cloud Studio – Set Element activity: Company Name – Setting the properties | |
| (1) Select **currentMember.companyName** |  |
| RPA Challenge – Cloud Studio – Adding set Element activity | |
| (1) Close the Step properties |  |
| RPA Challenge – Cloud Studio – Adding set Element activity | |
| (1) Drag another **Set Element** activity |  |
| RPA Challenge – Cloud Studio – Adding set Element activity | |
| (1) Drop it into the workflow below the last activity |  |
| RPA Challenge – Cloud Studio – Adding set Element activity | |
| (1) Click on the activity to set the properties |  |
| RPA Challenge – Cloud Studio – Set Element activity: Phone Number – Setting the properties | |
| (1) Set the **Step name** parameter to **Set Phone Number** |  |
| RPA Challenge – Cloud Studio – Set Element activity: Phone Number – Setting the properties | |
| (1) Click on the **Expression Editor** icon  of the **value**  parameter |  |
| RPA Challenge – Cloud Studio – Set Element activity: Phone Number – Setting the properties | |
| (1) Expand the **Variables** |  |
| RPA Challenge – Cloud Studio – Set Element activity: Phone Number – Setting the properties | |
| (1) Expand the **currentMember** node |  |
| RPA Challenge – Cloud Studio – Set Element activity: Phone Number – Setting the properties | |
| (1) Scroll down to find the **Phone Number** variable |  |
| RPA Challenge – Cloud Studio – Set Element activity: Phone Number – Setting the properties | |
| (1) Select **phoneNumber** |  |
| RPA Challenge – Cloud Studio – Set Element activity: Phone Number – Setting the properties | |
| (1) Add **.toString()** function to the expression to convert a number to a string |  |
| RPA Challenge – Cloud Studio – Set Element activity: Phone Number – Setting the properties | |
| (1) Click on **Test** to verify if the expression is valid    The editor will highlight it in green if it is and in red if it is not. |  |
| RPA Challenge – Cloud Studio – Set Element activity: Phone Number – Setting the properties | |
| (1) Click on **Save Expression** |  |
| RPA Challenge – Cloud Studio – Set Element activity: Phone Number – Setting the properties | |
| (1) Click on the **Target** parameter |  |
| RPA Challenge – Cloud Studio – Set Element activity: Phone Number – Setting the properties | |
| (1) Select |  |
| Fill the fields - Recap | |
| Please find a table that recaps the steps you need to follow to fill the fields of your automation.    The steps to follow to fill the Company Name field have been fully detailed in the tutorial for your convenience.  The steps to fill the Phone Number field have been also given as this field has numbers and a String needs to be added.    Kindly follow the directions in this table to proceed completing the five other fields. |  |
| RPA Challenge – Cloud Studio – Adding Click activity | |
| (1) Close the step properties    Once you are done filling the fields of the **Fill Fields** Automation, we can pursue and add a **Click** activity to our **RPA Challenge** Automation |  |
| RPA Challenge – Cloud Studio – Adding Click activity | |
| (1) Clear the search field |  |
| RPA Challenge – Cloud Studio – Adding Click activity | |
| (1) Search for the **Click** activity |  |
| RPA Challenge – Cloud Studio – Adding Click activity | |
| (1) Drag the Activity |  |
| RPA Challenge – Cloud Studio – Adding Click activity | |
| (1) Drop it into the workflow below the last activity |  |
| RPA Challenge – Cloud Studio – Adding Click activity | |
| (1) Scroll down to bring the workflow up |  |
| RPA Challenge – Cloud Studio – Click activity – Setting the properties | |
| (1) Click on the activity to set the properties |  |
| RPA Challenge – Cloud Studio – Click activity – Setting the properties | |
| (1) Click on the **Target** parameter |  |
| RPA Challenge – Cloud Studio – Click activity – Setting the properties | |
| (1) Select |  |
| RPA Challenge – Cloud Studio – Click activity – Setting the properties | |
| (1) Set the **Step name** parameter to **Click Submit** |  |
| RPA Challenge – Cloud Studio – Saving the Fill Fields automation | |
| (1) Click on **Save** |  |
| RPA Challenge – Cloud Studio – Adding the Fill Fields automation | |
| (1) Close the Automation tab |  |
| RPA Challenge – Cloud Studio – Adding the Fill Fields automation | |
| (1) Clear the search field |  |
| RPA Challenge – Cloud Studio – Adding the Fill Fields automation | |
| (1) Expand the **Automations** node |  |
| RPA Challenge – Cloud Studio – Adding the Fill Fields automation | |
| (1) Drag the **Fill fields** automation    This is a best practice to organize your automations by functional area to facilitate reusability |  |
| RPA Challenge – Cloud Studio – Adding the Fill Fields automation | |
| (1) Drop it into the workflow, just after the **Close Excel Instance** |  |
| RPA Challenge – Cloud Studio – Fill Fields automation – Setting the properties | |
| (1) Click on the Automation to set the properties |  |
| RPA Challenge – Cloud Studio – Fill Fields automation – Setting the properties | |
| (1) Click on the **employees** parameter |  |
| RPA Challenge – Cloud Studio – Fill Fields automation – Setting the properties | |
| (1) Select the variable **Employees** |  |
| RPA Challenge – Cloud Studio – Adding the Results screen | |
| (1) Close the step properties |  |
| RPA Challenge – Cloud Studio – Adding the Results screen | |
| (1) Expand the **Screens** node |  |
| RPA Challenge – Cloud Studio – Adding the Results screen | |
| (1) Drag the **Results** screen |  |
| RPA Challenge – Cloud Studio – Adding the Results screen | |
| (1) Drop it into the workflow just after the **Fill fields** automation |  |
| RPA Challenge – Cloud Studio – Adding the Results screen | |
| (1) Scroll down if needed |  |
| RPA Challenge – Cloud Studio – Results screen – Adding activities | |
| (1) Double-click to **Define Screen Activities** |  |
| RPA Challenge – Cloud Studio – Adding Get Element activity | |
| (1) Search for the **Get Element** activity |  |
| RPA Challenge – Cloud Studio – Adding Get Element activity | |
| (1) Drag the Activity |  |
| RPA Challenge – Cloud Studio – Adding Get Element activity | |
| (1) Drop it on the **result** element |  |
| RPA Challenge – Cloud Studio – Get Element activity – Setting the properties | |
| (1) Click on the activity in the workflow to set the properties |  |
| RPA Challenge – Cloud Studio – Get Element activity – Setting the properties | |
| (1) Set the **Step name** to **Get result rate** |  |
| RPA Challenge – Cloud Studio – Get Element activity – Setting the properties | |
| (1) Click on **text** in **Output Parameters** |  |
| RPA Challenge – Cloud Studio – Get Element activity – Setting the properties | |
| (1) Rename it to **resultRate** |  |
| RPA Challenge – Cloud Studio – Adding Screenshot activity | |
| (1) Close the step properties |  |
| RPA Challenge – Cloud Studio – Adding Screenshot activity | |
| (1) Clear the search field |  |
| RPA Challenge – Cloud Studio – Adding Screenshot activity | |
| (1) Search for the **Screenshot** activity |  |
| RPA Challenge – Cloud Studio – Adding Screenshot activity | |
| (1) Drag the Activity |  |
| RPA Challenge – Cloud Studio – Adding Screenshot activity | |
| (1) Drop it into the workflow inside the **Results** screen after **Get result rate** activity |  |
| RPA Challenge – Cloud Studio – Screenshot activity – Setting the properties | |
| (1) Click on the activity to set the properties |  |
| RPA Challenge – Cloud Studio – Screenshot activity – Setting the properties | |
| (1) Click on the Expression Editor icon of the **filePath** parameter |  |
| RPA Challenge – Cloud Studio – Screenshot activity – Setting the properties | |
| (1) Set the following expression:    "c:\\temp\\result" + Step18.resultRate +".png" |  |
| RPA Challenge – Cloud Studio – Screenshot activity – Setting the properties | |
| (1) Click on **Test** to verify if the expression is valid    The editor will highlight it in green if it is and in red if it is not. |  |
| RPA Challenge – Cloud Studio – Screenshot activity – Setting the properties | |
| (1) Click on **Save Expression** |  |
| RPA Challenge – Cloud Studio – Adding the Close Application activity | |
| (1) Close the step properties |  |
| RPA Challenge – Cloud Studio – Adding the Close Application activity | |
| (1) Clear the search field |  |
| RPA Challenge – Cloud Studio – Adding the Close Application activity | |
| (1) Drag the **Close Application** activity |  |
| RPA Challenge – Cloud Studio – Adding the Close Application activity | |
| (1) Drop it into the workflow inside the **Results** screen after the **Screenshot** activity |  |
| RPA Challenge – Cloud Studio – Adding the Log Message activity | |
| (1) Close the Screen panel |  |
| RPA Challenge – Cloud Studio – Adding the Log Message activity | |
| (1) Search for the **Log Message** activity |  |
| RPA Challenge – Cloud Studio – Adding the Log Message activity | |
| (1) Drag the Activity |  |
| RPA Challenge – Cloud Studio – Adding the Log Message activity | |
| (1) Drop it into the workflow after the **Results** screen |  |
| RPA Challenge – Cloud Studio – Log Message activity – Setting the properties | |
| (1) Click on the activity to set the properties |  |
| RPA Challenge – Cloud Studio – Log Message activity – Setting the properties | |
| (1) Click on the **message** parameter |  |
| RPA Challenge – Cloud Studio – Log Message activity – Setting the properties | |
| (1) Select the variable **resultRate** |  |
| RPA Challenge – Cloud Studio – Saving the automation | |
| (1) Click on **Save** |  |
| RPA Challenge – Cloud Studio – Automation saved | |
| The automation is now saved. |  |
| RPA Challenge – Cloud Studio – Adding parameters | |
| (1) Click on **Input/Output** |  |
| RPA Challenge – Cloud Studio – Adding parameters | |
| (1) Click on **Add new output parameter** |  |
| RPA Challenge – Cloud Studio – Adding parameters | |
| (1) Set **challengeResult** as the parameter name |  |
| RPA Challenge – Cloud Studio – Adding parameters | |
| (1) Click on the canvas |  |
| RPA Challenge – Cloud Studio – Adding parameters | |
| (1) Scroll to reach the **End** node of the workflow |  |
| RPA Challenge – Cloud Studio – Adding parameters | |
| (1) Click on the **End** node |  |
| RPA Challenge – Cloud Studio – Adding parameters | |
| (1) Click on the **challengeResult** parameter |  |
| RPA Challenge – Cloud Studio – Adding parameters | |
| (1) Select the **resultRate** value from the list |  |
| RPA Challenge – Cloud Studio – Saving the automation | |
| (1) Click on **Save** |  |
| RPA Challenge – Cloud Studio – Automation saved | |
|  |  |